

**FEDERALLY ENFORCEABLE STATE
OPERATING PERMIT (FESOP)
OFFICE OF AIR QUALITY
and
INDIANAPOLIS ENVIRONMENTAL RESOURCES
MANAGEMENT DIVISION**

**Community Hospital East
1500 North Ritter Avenue
Indianapolis, Indiana 46219**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F097-13830-00229	
Issued by: Original signed by Daniel B. Dovenbarger Administrator, ERMD City of Indianapolis	Issuance Date: June 22, 2001 Expiration Date: June 22, 2006

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and the Environmental Resources Management Division (ERMD). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary general medical and surgical hospital.

Authorized individual:	Mr. Denny Criggar
Source Address:	1500 North Ritter Avenue, Indianapolis, Indiana 46219
Mailing Address:	1500 North Ritter Avenue, Indianapolis, Indiana 46219
SIC Code:	8062
Source Location Status:	Marion County
County Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source under PSD or Emission Offset rules Minor Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) Vogt Boiler, model number VV175, installed in 1956, identified as emission unit B-1, with a maximum capacity of 29 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-1.
- (b) One (1) Vogt Boiler, model number VV175, installed in 1956, identified as emission unit B-2, with a maximum capacity of 29 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-1.
- (c) One (1) Keeler Boiler, model number DS-10-11, installed in 1962, identified as emission unit B-3, with a maximum capacity of 65 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-1
- (d) One (1) Caterpillar Generator, model number 3516, installed on January 1, 1999, identified as emission unit G-1, with a maximum capacity of 2168 hp, using no controls, combusting No. 2 distillate oil, and exhausting to outside of the building.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

- (a) Combustion source flame safety purging on startup
- (b) Vessels storing lubricating oils, hydraulic oils, and machining fluids

- (c) Refractory storage not requiring air pollution control equipment
- (d) Filling drums, pails, or other packaging containers with lubricating oils, waxes, and greases
- (e) Cleaners and solvents characterized as follows: (a) having a vapor pressure less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 EC (100 EF) or; (b) having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20 C (68 F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months
- (f) The following equipment related to manufacturing activities not resulting in the emission of HAPs; brazing equipment, cutting torches, soldering equipment, welding equipment
- (g) Closed loop heating and cooling systems
- (h) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs
- (i) Forced draft and induced draft cooling tower system not regulated under a NESHAP
- (j) Heat exchanger cleaning and repair
- (k) Paved and unpaved roads and parking lots with public access
- (l) Asbestos abatement projects regulated by 326 IAC 14-10
- (m) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment
- (n) Blowdown for any of the following: sight glass; boiler, compressors; pumps; and cooling tower
- (o) On site fire and emergency response training approved by the department
- (p) Three (3) Diesel generators not exceeding 1600 horsepower, identified as G-2, G-3, and G-4
- (q) Stationary electric fire pumps
- (r) Purge double block and bleed valves
- (s) A laboratory as defined in 326 IAC 2-7-1(20)(C)
- (t) Ethylene oxide is used for sterilizing medical products. Its emissions are greater than 1 pound per day, but less than 12.5 pounds per day or 2.5 tons per year.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-

2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permit Conditions

- (a) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.
- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAQ, and ERMD shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.4 Enforceability [326 IAC 2-8-6]

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- (a) Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM and ERMD, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.
- (b) Unless otherwise stated, all terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by and ERMD.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

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- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resource Management Division
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall furnish to IDEM, OAQ, and ERMD within a reasonable time, any information that IDEM, OAQ, and ERMD may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, and ERMD copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality.[326 IAC 2-8-4(5)(E)]
- (c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ, and ERMD may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; and
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in condition B, Emergency Provisions.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resource Management Division
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and ERMD on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, and ERMD may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance

of this permit, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resource Management Division
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

The PMP and the PMP extension notification do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ and ERMD upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ and ERMD. IDEM, OAQ and ERMD may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or ERMD makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or ERMD within a reasonable time.

B.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an

action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ and ERMD, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section)
or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967

ERMD

Telephone No.: 317/327-2234
Facsimile No.: 317/327-2274

Failure to notify IDEM, OAQ and ERMD, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resource Management Division
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ and ERMD, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ and ERMD, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resource Management Division
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report.

The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
 - (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
 - (2) Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination

[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ or ERMD determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

- (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ or ERMD, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ or ERMD, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ or ERMD, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and ERMD and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resource Management Division
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and ERMD on or before the date it is due.
 - (2) If IDEM, OAQ and ERMD upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ and ERMD takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ and ERMD, any additional information identified as needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resource Management Division
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality

100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resource Management Division
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ and ERMD, in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ ERMD, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resource Management Division
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the

request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-11(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAQ and ERMD, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided

in 326 IAC 4-2 and in 326 IAC 9-1-2. 326 IAC 9-1-2 is not federally enforceable.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment is are in operation.

C.7 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4(d)(3), (e), and (f), and 326 IAC 1-7-5(d) are not federally enforceable.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resource Management Division
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-8-4(3)]

C.9 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resource Management Division
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ, and ERMD not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, and ERMD, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resource Management Division
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

in writing, prior to the end of the initial ninety (90) day compliance schedule with full justification of the reasons for inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on December 12, 1996.
- (b) If the ERP is disapproved by IDEM, OAQ, and ERMD, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (c) Upon direct notification by IDEM, OAQ, and ERMD, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or
 - (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
- All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.15 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. The compliance monitoring plan can be either an entirely new document, consist in whole of information contained in other documents, or consist of a combination of new information and information contained in other documents. If the compliance monitoring plan incorporates by reference information contained in other documents, the Permittee shall identify as part of the compliance monitoring plan the documents in which the information is found. The elements of the compliance monitoring plan are:
 - (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAQ, and ERMD upon request and shall be subject to review and approval by IDEM, OAQ, and ERMD. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of:
 - (A) Reasonable response steps that may be implemented in the event that compliance related information indicates that a response step is needed

pursuant to the requirements of Section D of this permit; and

- (B) A time schedule for taking reasonable response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to take reasonable response steps may constitute a violation of the permit.
- (c) Upon investigation of a compliance monitoring excursion, the Permittee is excused from taking further response steps for any of the following reasons:
 - (1) A false reading occurs due to the malfunction of the monitoring equipment. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.
 - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (e) All monitoring required in Section D shall be performed at all times the equipment is operating. If monitoring is required by Section D and the equipment is not operating, then the Permittee may record the fact that the equipment is not operating or perform the required monitoring.
- (f) At its discretion, IDEM may excuse the Permittee's failure to perform the monitoring and record keeping as required by Section D, if the Permittee provides adequate justification and documents that such failures do not exceed five percent (5%) of the operating time in any quarter. Temporary, unscheduled unavailability of qualified staff shall be considered a valid reason for failure to perform the monitoring or record keeping requirements in Section D.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]
[326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.17 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6. This annual statement must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8) (Emission Statement Operating Year). The annual statement must be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resource Management Division
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

The emission statement does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and ERMD on or before the date it is due.

C.18 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or ERMD makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or ERMD within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already

legally required shall be implemented within ninety (90) days of permit issuance.

C.19 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resource Management Division
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and ERMD on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

Stratospheric Ozone Protection

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]

- (a) One (1) Vogt Boiler, model number VV175, installed in 1956, identified as emission unit B-1, with a maximum capacity of 29 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-1.
- (b) One (1) Vogt Boiler, model number VV175, installed in 1956, identified as emission unit B-2, with a maximum capacity of 29 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-1.
- (c) One (1) Keeler Boiler, model number DS-10-11, installed in 1962, identified as emission unit B-3, with a maximum capacity of 65 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-1

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Particulate Matter (PM)[326 IAC 6-2-2]

Pursuant to 326 IAC 6-2-2 (Particulate Matter Emission Limitations for Sources of Indirect Heating, the PM emissions for boilers No. 1 and 2 shall be limited to 0.403 pounds per million BTU heat input.

These limitations are based on the following equation:

$$Pt = \frac{0.87}{Q^{0.16}}$$

where:

Pt = emission rate limit (lbs/MMBtu)

Q = total source heat input capacity (MMBtu/hr)

Q used is 123 mmBtu/hr.

D.1.2 Particulate Matter (PM) [326 IAC 6-1-12]

Pursuant to 326 IAC 6-1-12 (Marion County SIP) emissions for the Keeler boiler (B-3) shall be limited to 0.5 tons per year and 0.014 lbs/mmBtu of Particulate Matter emissions

D.1.3 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1][326 IAC 7-2-1]

Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations), the SO₂ emissions from each boiler shall not exceed five-tenths (0.5) pound per million Btu heat input while combusting fuel oil. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a thirty (30) day rolling weighted average. 326 IAC 7-1.1 and 326 IAC 7-2-1 are not federally enforceable.

D.1.4 Fuel Use Limitation [326 IAC 2-8-4]

The total No. 2 oil combusted in all boilers (B-1, B-2, and B-3) shall be limited 2514.9 kilogallons or 2,514,900 gallons per rolling twelve (12) consecutive month period. This usage limit is equivalent to a potential to emit SO₂ of 89.3 tons per year. Compliance with this fuel usage limitation makes 326 IAC 2-7 (Part 70 Permit Program) not applicable.

D.1.5 Fuel Use Limitation [326 IAC 6-1-12]

In order to comply with Condition D.1.2, the Permittee shall be limited to burning 131.6 mmcf of Natural Gas per rolling twelve (12) consecutive month period.

Compliance Determination Requirements

D.1.6 Testing Requirements [326 IAC 326 IAC 2-8-5(a)(1),(4)][326 IAC 2-1.1-11]

Testing of this facility is not specifically required by this permit. However, if testing is required, compliance with the sulfur dioxide limit specified in Condition D.1.3 or PM limit specified in Condition D.1.1 or D.1.2 shall be determined by a performance test conducted in accordance with Section C.8 - Performance Testing.

D.1.7 Sulfur Dioxide Emissions and Sulfur Content

Compliance with Condition D.1.3 shall be determined utilizing one of the following options:

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pound per million Btu heat input by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a certification; or,
 - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.1.8 Visible Emissions Notations [326 IAC 5-1-2(2)]

- (a) Visible emission notations of the boilers' stack exhaust shall be performed once per shift during normal daylight operations while combusting fuel oil. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for

that specific process.

- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.9 Record Keeping Requirements

- (a) To document compliance with Condition D.1.3, D.1.4 and D.1.5, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO₂ emission limit established in Condition D.1.3.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
 - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period, the natural gas fired boiler certification requires certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1); and

If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications;
 - (5) The name of the fuel supplier; and
 - (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
 - (b) To document compliance with Condition D.1.8, the Permittee shall maintain records of visible emission notations of the boiler stack S-1 exhaust while combusting fuel oil.
 - (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.10 Reporting Requirements

- (a) A quarterly summary of the information to document compliance with Condition D.1.4 and D.1.5 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee requires the certification by the "authorized individual" as defined by 326 IAC 2-1-1(1).
- (b) The Permittee shall certify, on the form provided, that natural gas was fired in the boiler at all times during each quarter. Alternatively, the Permittee shall report the number of days during which an alternate fuel was burned during each quarter.

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]

- (a) One (1) Caterpillar Generator, model number 3516, installed on January 1, 1999, identified as emission unit G-1, with a maximum capacity of 2168 hp, using no controls, combusting No. 2 distillate oil, and exhausting to outside of the building.
- (b) Three (3) Diesel generators not exceeding 1600 horsepower, identified as G-2, G-3, and G-4. (G-2, G-3, and G-4 are specifically regulated insignificant activities)

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Fuel Use Limitation [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4 (Federally Enforceable State Operating Permit Program), combined distillate fuel oil consumption in Emission Unit ID G-1, G-2, G-3, and G-4 is limited to 123,600 gallons per rolling twelve (12) consecutive month period. This usage limit is equivalent to 500 hours of operation for each generator, and limits combined SO₂ emissions to 9.7 tons per rolling twelve (12) consecutive month period. Compliance with this limit makes 326 IAC 2-7 (Part 70 Permit Program) not applicable.

Compliance Determination Requirements

D.2.2 Fuel Use Limitation

Compliance with the fuel usage limitation in Condition D.2.1 shall be demonstrated at the end of each month based on the combined total amount of fuel combusted in all generators (G-1, G-2, G-3, and G-4) per rolling twelve (12) consecutive month period.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.2.3 Record Keeping Requirements

To document compliance with Condition D.2.1, the Permittee shall maintain a monthly record of combined distillate oil consumption of Emission Units G-1, G-2, G-3, and G-4.

D.2.4 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.1 shall be submitted to the address(es) listed in Section C.17 - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
AND
CITY OF INDIANAPOLIS ENVIRONMENTAL RESOURCES MANAGEMENT
DIVISION (ERMD)**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Community Hospital
Source Address: 1500 North Ritter Avenue, Indianapolis, Indiana 46219
Mailing Address: 1500 North Ritter Avenue, Indianapolis, Indiana 46219
FESOP No.: F097-13830-00229

**This certification shall be included when submitting monitoring, testing reports/results
or other documents as required by this permit.**

Please check what document is being certified:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 Affidavit (specify) _____
- 9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967
AND
CITY OF INDIANAPOLIS ENVIRONMENTAL RESOURCES MANAGEMENT
DIVISION (ERMD)
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097
Phone: 317-327-2234
Fax: 317-327-2274**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Community Hospital
Source Address: 1500 North Ritter Avenue, Indianapolis, Indiana 46219
Mailing Address: 1500 North Ritter Avenue, Indianapolis, Indiana 46219
FESOP No.: F097-13830-00229

This form consists of 2 pages

Page 1 of 2

9 This is an emergency as defined in 326 IAC 2-7-1(12)
 CThe Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
 CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
AND
CITY OF INDIANAPOLIS ENVIRONMENTAL RESOURCES MANAGEMENT
DIVISION (ERMD)**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
NATURAL GAS FIRED BOILER CERTIFICATION**

Source Name: Community Hospital
Source Address: 1500 North Ritter Avenue, Indianapolis, Indiana 46219
Mailing Address: 1500 North Ritter Avenue, Indianapolis, Indiana 46219
FESOP No.: F097-13830-00229

**This certification shall be included when submitting monitoring, testing reports/results
or other documents as required by this permit.**

Report period

Beginning: _____

Ending: _____

Boiler Affected

Alternate Fuel

Days burning alternate fuel
From To

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature: _____

Printed Name: _____

Title/Position: _____

Date: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
AND
CITY OF INDIANAPOLIS ENVIRONMENTAL RESOURCES MANAGEMENT
DIVISION (ERMD)**

FESOP Quarterly Report

Source Name: Community Hospital
Source Address: 1500 North Ritter Avenue, Indianapolis, IN. 46219
Mailing Address: 1500 North Ritter Avenue, Indianapolis, IN. 46219
FESOP No.: F097-13830-00229
Facility: All Boilers (B-1, B-2, and B-3)
Parameter: Nr. 2 Fuel Usage
Limit: 2,514,900 gallons per rolling twelve (12) consecutive month period

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
AND
CITY OF INDIANAPOLIS ENVIRONMENTAL RESOURCES MANAGEMENT
DIVISION (ERMD)**

FESOP Quarterly Report

Source Name: Community Hospital
Source Address: 1500 North Ritter Avenue, Indianapolis, Indiana 46219
Mailing Address: 1500 North Ritter Avenue, Indianapolis, Indiana 46219
FESOP No.: F097-13830-00229
Facility: Keeler Boiler (B-3)
Parameter: Total Natural Gas And Equivalent Natural Gas Combustion
Limit: 131.6 mmcf per rolling twelve (12) consecutive month period
Each kgal of Nr. 2 fuel oil is equivalent to 0.26 mmcf of Natural Gas

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
AND
CITY OF INDIANAPOLIS ENVIRONMENTAL RESOURCES MANAGEMENT
DIVISION (ERMD)**

FESOP Quarterly Report

Source Name: Community Hospital
Source Address: 1500 North Ritter Avenue, Indianapolis, Indiana 46219
Mailing Address: 1500 North Ritter Avenue, Indianapolis, Indiana 46219
FESOP No.: F097-13830-00229
Facility: All Generators (G-1, G-2, G-3, and G-4)
Parameter: Diesel Fuel Usage
Limit: 123,600 gallons per rolling twelve (12) consecutive month period

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- 9 No deviation occurred in this quarter.
9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
AND
CITY OF INDIANAPOLIS ENVIRONMENTAL RESOURCES MANAGEMENT
DIVISION (ERMD)**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Community Hospital
Source Address: 1500 North Ritter Avenue, Indianapolis, Indiana 46219
Mailing Address: 1500 North Ritter Avenue, Indianapolis, Indiana 46219
FESOP No.: F097-13830-00229

Months: _____ to _____ Year: _____

Page 1 of 2

This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**Indiana Department of Environmental Management
Office of Air Quality
and
City Of Indianapolis Environmental Resources Management
Division (ERMD)**

**Technical Support Document (TSD) for a Federally Enforceable
Operating Permit (FESOP)**

Source Background and Description

Source Name:	Community Hospital East
Source Location:	1500 North Ritter Avenue, Indianapolis, IN 46219
County:	Marion
SIC Code:	8062
Operation Permit No.:	F097-13830-00229
Permit Reviewer:	Dana Armstrong

The Office of Air Quality (OAQ) and the City of Indianapolis ERMD has reviewed a FESOP application from Community Hospital East, relating to the operation of a stationary general medical and surgical hospital

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) Vogt Boiler, model number VV175, installed in 1956, identified as emission unit B-1, with a maximum capacity of 29 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-1.
- (b) One (1) Vogt Boiler, model number VV175, installed in 1956, identified as emission unit B-2, with a maximum capacity of 29 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-1.
- (c) One (1) Keeler Boiler, model number DS-10-11, installed in 1962, identified as emission unit B-3, with a maximum capacity of 65 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-1.
- (d) One (1) Caterpillar Generator, model number 3516, installed on January 1, 1999, identified as emission unit G-1, with a maximum capacity of 2168 hp, using no controls, combusting No. 2 distillate oil, and exhausting to outside of the building.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Combustion source flame safety purging on startup.
- (b) Vessels storing lubricating oils, hydraulic oils, and machining fluids
- (c) Refractory storage not requiring air pollution control equipment
- (d) Filling drums, pails, or other packaging containers with lubricating oils, waxes, and greases
- (e) Cleaners and solvents characterized as follows: (a) having a vapor pressure less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 EC (100 EF) or; (b) having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20 C (68 F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months
- (f) The following equipment related to manufacturing activities not resulting in the emission of HAPs; brazing equipment, cutting torches, soldering equipment, welding equipment
- (g) Closed loop heating and cooling systems
- (h) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs
- (i) Forced draft and induced draft cooling tower system not regulated under a NESHAP.
- (j) Heat exchanger cleaning and repair
- (k) Paved and unpaved roads and parking lots with public access
- (l) Asbestos abatement projects regulated by 326 IAC 14-10
- (m) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (n) Blowdown for any of the following: sight glass; boiler, compressors; pumps; and cooling tower.
- (o) On site fire and emergency response training approved by the department
- (p) Three (3) diesel generators, identified as G-2, G-3, and G-4, not exceeding 1600 horsepower
- (q) Stationary electric fire pumps
- (r) Purge double block and bleed valves
- (s) A laboratory as defined in 326 IAC 2-7-1(20)(C)
- (t) Ethylene oxide is used for sterilizing medical products. Its emissions are greater than 1 pound per day, but less than 12.5 pounds per day or 2.5 tons per year.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) Operating Permit 5140, issued on February 8, 1995.

None of the conditions from previous approvals were incorporated into this FESOP because none of the conditions were applicable under the current regulations.

Recommendation

The staff recommends to the Commissioner that the FESOP be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete Title V application for the purposes of this review was received on December 12, 1996. Additional information was received on March 2, 2000. On this date, the source requested a FESOP in lieu of the Title V, since they would render their medical waste incinerator unusable on Friday, March 10, 2000. The information included in the original Title V application was sufficient to process the FESOP.

Emission Calculations

See Appendix A, page 1 through 20 of this document for detailed emissions calculations

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA."

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	5.8
PM-10	4.1
SO ₂	293.2
VOC	3.0
CO	45.3
NO _x	77

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Potential To Emit (tons/year)
All Single HAPs	<0.23
TOTAL	0.7

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of SO₂ is equal to or greater than 100 tons per year, therefore, the source is subject to the provisions of 326 IAC 2-7.

(b) Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD and Emission Offset applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 1999 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	0.28
PM-10	0.28
SO ₂	0.16
VOC	0.1
CO	2.2
NO _x	36.49
HAP (specify)	0

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control procedures are considered federally enforceable only after issuance of this Federally Enforceable State Operating Permit.

	Limited Potential to Emit (tons/year)						
Process/facility	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Boiler B-1	1.0	1.0	89.3(1)	0.7	10.7	12.7	0.2
Boiler B-2	1.0	1.0		0.7	10.7	12.7	0.2
Boiler B-3	0.5(2)	0.5(2)		1.6	23.9	28.5	0.2
All Generators	0.1	-	9.7(3)	0.8	15.6	28.8	-
Insignificant Activities	0.0	0.0	0.0	0.0	0.0	0.0	<2.5(5)
Total Emissions	2.6	4.1	<100(4)	3.8	60.9	82.7	<3.1(5)

- (1) Potential to emit SO₂ for all three boilers is limited restricting the Nr. 2 oil usage of all boilers combined to 2514.9 kilogallons (2,514,900 gallons) per year in order to keep boilers' potential SO₂ emissions limited to 89.3 tons per year.
- (2) PM emissions for Nr. 3 Boiler are limited pursuant to 326 IAC 6-1-12 to 0.5 tons per year for each fuel. The following fuel limits shall be followed:
 - (a) The usage of Nr. 2 oil in Nr. 3 Boiler is restricted to 500 kgal/year. This is equivalent to 0.5 tons PM emissions per year (without burning any other fuel)
 - (b) The usage of natural gas in Nr. 3 Boiler to 131.6 MMcf/year. This is equivalent to 0.5 tons PM emissions per year (without burning any other fuel)

- (c) For operational flexibility 1 kgal of Nr. 2 fuel can be counted as (131.6/500) or 0.26 mmcf of natural gas usage. The sum of all natural gas and equivalent natural gas usage shall be limited to 131.6 mmcf per twelve (12) consecutive month rolling period.
- (2) All Generators are limited to 123,600 gallons per year which is equivalent to 500 hours of usage for each generator, so that generators' potential SO₂ emissions are limited to 9.7 tons per year.
- (3) All Generators and Boilers are limited as noted in (1) and (3) above so that sourcewide SO₂ emissions are less than 100 tons per year.
- (4) Ethylene Oxide Sterilization produces less than 2.5 tons per year of Ethylene Oxide emissions. Total combined HAPs emissions for the source are less than 2.5 + the other HAPs emissions.

County Attainment Status

The source is located in Marion County.

Pollutant	Status
PM-10	unclassifiable
SO ₂	maintenance attainment
NO ₂	attainment
Ozone	maintenance attainment
CO	attainment
Lead	unclassifiable

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Marion County has been designated as attainment or unclassifiable for ozone.

Federal Rule Applicability

- (a) The two 29 mmBtu per hour boilers (B-1 and B-2) and the 65 mmBtu per hour boiler (B-3) are not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.4, Subpart Dc). This regulation does not apply to the boilers since they were installed before June 9, 1989.
- (b) 40 CFR 63 Subpart O does not apply since the source is a hospital, and hospitals are exempt pursuant to 40 CFR 63.360(e). There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 1-5-2 (Emergency Reduction Plans)

The source has submitted an Emergency Reduction Plan (ERP) on December 12, 1996. The ERP has been verified to fulfill the requirements of 326 IAC 1-5-2 (Emergency Reduction Plans).

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than ten (10) tons per year of NO_x and it is located in Marion County. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by April 15 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

The source will be required to annually submit a statement of the actual emissions of all federally regulated pollutants from the source, for the purpose of fee assessment.

326 IAC 5-1 (Visible Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability - Individual Facilities

326 IAC 6-1-12 (Marion County)

PM emissions for Nr. 3 Boiler are limited pursuant to 326 IAC 6-1-12 to 0.5 tons per year for each fuel. The following fuel limits shall be followed:

- (a) The usage of Nr. 2 oil in Nr. 3 Boiler is restricted to 500 kgal/year. This is equivalent to 0.5 tons PM emissions per year (without burning any other fuel)
- (d) The usage of natural gas in Nr. 3 Boiler to 131.6 MMcf/year. This is equivalent to 0.5 tons PM emissions per year (without burning any other fuel)
- (e) For operational flexibility 1 kgal of Nr. 2 fuel can be counted as (131.6/500) or 0.26 mmcf of natural gas usage, The sum of all natural gas and equivalent natural gas usage shall be limited to 131.6 mmcf per twelve (12) consecutive month rolling period.

326 IAC 6-2-2 (Indirect Heating Emissions Limitations)

This regulation applies to Boilers 1, 2 since these emission units are indirect heaters, were installed before September 21, 1983, are located in Marion County, and 326 IAC 6-1-12 limitations do not apply to these boilers. Pursuant to 326 IAC 6-2-2 the PM emissions are limited by the following equation:

$$P_t = \frac{0.87}{Q^{0.16}}$$

Where: P_t = Pounds of particulate matter emitted per million Btu heat input.

Q = Total source maximum operating capacity rating in million Btu per hour heat input. As each new indirect heater is added to the plant Q will increase.

The value of Q used to determine P_t for boilers 1, 2 and 3 is 123 mmBtu/hr. This is based on combining heat input of all boilers pursuant to 326 IAC 6-2-2(b), since all boilers were in operation prior to June 8, 1972. P_t for boiler all boilers is 0.403 lbs/MMBtu. Based on AP-42 emissions factor for natural gas and AP 42 supplied emissions factors for No. 1 and 2 Fuel Oil all boilers appear to be in compliance with the particulate matter emissions limitations established under 326 IAC 6-2-2. See pages 1 through 20 of 20 in appendix A for the AP 42 emission factors.

326 IAC 2-7-2 (Title V Applicability)

Sourcewide potential to emit for SO_2 is greater than 100 tons per year. Restrictions are placed on No. 2 oil usage for the boilers and diesel usage for the generators so that source wide SO_2

emissions are less than 100 tons per year and 326 IAC 2-7-2 does not apply.

326 IAC 2-8-4 (FESOP Content)

SO₂ emissions for all of the boilers is limited to 89.3 tons per year by limiting No. 2 oil usage for all boilers to 2,514,900 gallons per year. SO₂ emissions for all the generators is limited to 9.7 tons per year by limiting diesel usage for all generators to 123,600 gallons per year. These emission limitations are established so that emissions are less than 100 tons per year and 326 IAC 2-7-2 does not apply.

326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations)

Allowable SO₂ emissions, are not limited pursuant to 326 IAC 7-4-2 (Sulfur Dioxide Rules: Marion County Sulfur Dioxide Emission Limitations) because it is not one of the sources listed in the rule. Since the source combusts distillate oil, then pursuant to 326 IAC 7-1.1-2, SO₂ emissions are limited to 0.5 pounds per million Btu. This limit will be met as long as the sulfur content of the fuel does not exceed 0.49% by weight, based on current AP42 emissions data for distillate oil combustion in fuel fired boilers (142(S) pounds SO₂/kgal x kgal/140 MMBtu = 0.5 pounds SO₂/MMBtu; (S) = 0.49%S).

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

Visible emission notations of the boilers' stack exhaust shall be performed once per shift during normal daylight operations while combusting fuel oil. A trained employee shall record whether emissions are normal or abnormal.

For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 188 hazardous air pollutants (HAPs) set out in the 1990 Clean Air Act. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Quality (OAQ) FESOP Application Form GSD-08.

- (a) This source will emit levels of air toxics less than those which constitute a major source according to Section 112 of the 1990 Clean Air Act.
- (b) See attached calculations in Appendix A, pages 3,4,6,8,9,11,14,16, and 20 of 20 for detailed air toxic calculations.

Conclusion

The operation of this stationary general medical and surgical hospital shall be subject to the conditions of the attached proposed FESOP No.: F097-13830-00229.

Appendix A

Appendix A: Emissions Calculations**Equipment Descriptions**

Company Name: Community Hospital
Address, City IN Zip: 1550 North Ritter Avenue
CP: 5039
Plt ID: 00229
Reviewer: DRA
Date: 06/22/01

Significant Activities							
S/V ID	Emission Unit ID	Manufacturer	Model Number	Install Date	Serial Number/Brief Description	Maximum Unit Capacity	Units
S-1	B-1	Vogt	VV175	1956	Natural gas fired boiler with fuel oil backup	29	mmBtu/hr
S-1	B-2	Vogt	VV175	1956	Natural gas fired boiler with fuel oil backup	29	mmBtu/hr
S-1	B-3	Keeler	DS-10-11	1962	Natural gas fired boiler with fuel oil backup	65	mmBtu/hr
??	G-1	Caterpillar	3516	??	AHU Equipment Generator	2168	hp
Insignificant Activities						101.6	gal/hr
Emission Unit ID	Brief Description	Manufacturer	Maximum Unit Capacity	Units	Fuel Usage Rate	Units	
G-2	Bldg. 1	Caterpillar	777	hp	38.9	gal/hr	
G-3	Bldg. 2	Caterpillar	1061	hp	49.7	gal/hr	
G-4	Bldg. 3	Detroit Diesel	800	hp	57	gal/hr	

Appendix A: Emissions Calculations**Natural Gas Combustion Only****MM BTU/HR <100****Small Industrial Boiler****Company Name: Community Hospital****Address City IN Zip: 1550 North Ritter Avenue****CP: 5039****Plt ID: 00229****Reviewer: DRA****Date: 06/22/01**Heat Input Capacity
MMBtu/hrPotential Throughput
MMCF/yr

29.0

254.0

Emission Factor in lb/MMCF	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
	7.6	7.6	0.6	100.0 *see below	5.5	84.0
Potential Emission in tons/yr	1.0	1.0	0.1	12.7	0.7	10.7

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

PM emission factors are condensable and filterable.

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)

Gas Boiler
HAPs Emissions

Company Name: Community Hospital
Address, City IN Zip: 1550 North Ritter Avenue
CP: 5039
Plt ID: 00229
Reviewer: DRA
Date: 06/22/01

AP-43 data given in lb/mmcf: To convert lb/mmcf-lb/mmbtu, divide by 1,020

HAPs - Metals

	Arsenic	Beryllium	Cadmium	Chromium	Lead
Emission Factor in lb/mmcf	2.0E-04	1.2E-05	1.1E-03	1.4E-03	0.0E+00
Emission Factor in lb/mmBtu	2.0E-07	1.2E-08	1.1E-06	1.4E-06	0.0E+00
Potential Emission in tons/yr	2.49E-05	1.49E-06	1.37E-04	1.74E-04	0.00E+00

HAPs - Metals (continued)

	Mercury	Manganese	Nickel	Selenium	Total Haps Metals
Emission Factor in lb/mmcf	2.6E-04	3.8E-04	2.1E-03	2.4E-05	
Emission Factor in lb/mmBtu	2.5E-07	3.7E-07	2.1E-06	2.4E-08	
Potential Emission in tons/yr	3.24E-05	4.73E-05	2.62E-04	2.99E-06	7.39E-04

HAPs - Organics

	1-Methylnaphthalene	3-Methylchloranthrene	7,12-Dimethylbenz(a)anthracene	Acenaphthene	Acenaphthylene
Emission Factor in lb/mmcf	2.4E-05	1.8E-06	1.6E-06	1.8E-06	1.8E-06
Emission Factor in lb/mmBtu	2.4E-08	1.8E-09	1.6E-09	1.8E-09	1.8E-09
Potential Emission in tons/yr	2.99E-06	2.24E-07	1.99E-07	2.24E-07	2.24E-07

HAPs - Organics(continued)

	Anthracene	Benz(a)anthracene	Benzene	Benzo(a)pyrene	Benzo(b)fluoranthene
Emission Factor in lb/mmcf	2.4E-06	1.8E-06	2.1E-03	1.2E-06	1.8E-06
Emission Factor in lb/mmBtu	2.4E-09	1.8E-09	2.1E-06	1.2E-09	1.8E-09
Potential Emission in tons/yr	2.99E-07	2.24E-07	2.62E-04	1.49E-07	2.24E-07

HAPs - Organics(continued)

	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Dichlorobenzene
Emission Factor in lb/mmcf	1.2E-06	1.8E-06	1.8E-06	1.2E-06	1.2E-03
Emission Factor in lb/mmBtu	1.2E-09	1.8E-09	1.8E-09	1.2E-09	1.2E-06
Potential Emission in tons/yr	1.49E-07	2.24E-07	2.24E-07	1.49E-07	1.49E-04

HAPs - Organics(continued)

	Fluoranthene	Fluorene	Formaldehyde	Hexane	Indeno(1,2,3-cd)pyrene
Emission Factor in lb/mmcf	3.0E-06	2.8E-06	7.5E-06	1.8E+00	1.8E-06
Emission Factor in lb/mmBtu	2.9E-09	2.7E-09	7.4E-09	1.8E-03	1.8E-09
Potential Emission in tons/yr	3.74E-07	3.49E-07	9.34E-07	2.24E-01	2.24E-07

HAPs - Organics(continued)

	Naphthalene	Phenanthrene	Total Haps Organics	Total Haps Combined
Emission Factor in lb/mmcf	6.1E-04	1.7E-05		
Emission Factor in lb/mmBtu	6.0E-07	1.7E-08		
Potential Emission in tons/yr	7.60E-05	2.12E-06	2.25E-01	2.25E-01

Methodology

Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#1 and #2 Fuel Oil

Company Name: Community Hospital
Address, City IN Zip: 1550 North Ritter Avenue
CP: 5039
Plt ID: 00229
Reviewer: DRA
Date: 06/22/01

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur <div style="border: 1px solid black; padding: 2px;">0.5</div>
<div style="border: 1px solid black; padding: 2px;">29</div>	1814.5714	

Emission Factor in lb/kgal	Pollutant				
	PM*	SO ₂	NO _x	VOC	CO
	2.0	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	1.8	64.4	18.1	0.3	4.5

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM₁₀ when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emission calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#1 and #2 Fuel Oil
HAPs Emissions

Company Name: Community Hospital
Address, City IN Zip: 1550 North Ritter Avenue
CP: 5039
Plt ID: 00229
Reviewer: DRA
Date: 06/22/01

HAPs - Metals

Emission Factor in lb/mmBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	5.08E-04	3.81E-04	3.81E-04	3.81E-04	1.14E-03

HAPs - Metals (continued)

Emission Factor in lb/mmBtu	Mercury 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Selenium 1.5E-05	Total Haps
Potential Emission in tons/yr	3.81E-04	7.62E-04	3.81E-04	1.91E-03	6.22E-03

Methodology

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100**

Small Industrial Boiler

Company Name: Community Hospital
Address City IN Zip: 1550 North Ritter Avenue
CP: 5039
Plt ID: 00229
Reviewer: DRA
Date: 06/22/01

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

29.0

254.0

Emission Factor in lb/MMCF	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
	7.6	7.6	0.6	100.0 *see below	5.5	84.0
Potential Emission in tons/yr	1.0	1.0	0.1	12.7	0.7	10.7

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

PM emission factors are condensable and filterable.

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
Gas Boiler
HAPs Emissions

Company Name: Community Hospital
Address, City IN Zip: 1550 North Ritter Avenue
CP: 5039
Plt ID: 00229
Reviewer: DRA
Date: 06/22/01

AP-43 data given in lb/mmcf: To convert lb/mmcf-lb/mmbtu, divide by 1,020

HAPs - Metals

	Arsenic	Beryllium	Cadmium	Chromium	Lead
Emission Factor in lb/mmcf	2.0E-04	1.2E-05	1.1E-03	1.4E-03	0.0E+00
Emission Factor in lb/mmBtu	2.0E-07	1.2E-08	1.1E-06	1.4E-06	0.0E+00
Potential Emission in tons/yr	2.49E-05	1.49E-06	1.37E-04	1.74E-04	0.00E+00

HAPs - Metals (continued)

	Mercury	Manganese	Nickel	Selenium	Total Haps Metals
Emission Factor in lb/mmcf	2.6E-04	3.8E-04	2.1E-03	2.4E-05	
Emission Factor in lb/mmBtu	2.5E-07	3.7E-07	2.1E-06	2.4E-08	
Potential Emission in tons/yr	3.24E-05	4.73E-05	2.62E-04	2.99E-06	7.39E-04

HAPs - Organics

	1,2,3,4,5,6,7,8,9,10,11,12-Dibenz(a,h)anthracene	3-Methylchloranthrene	7,12-Dimethylbenz(a)anthracene	Acenaphthene	Acenaphthylene
Emission Factor in lb/mmcf	2.4E-05	1.8E-06	1.6E-06	1.8E-06	1.8E-06
Emission Factor in lb/mmBtu	2.4E-08	1.8E-09	1.6E-09	1.8E-09	1.8E-09
Potential Emission in tons/yr	2.99E-06	2.24E-07	1.99E-07	2.24E-07	2.24E-07

HAPs - Organics(continued)

	Anthracene	Benz(a)anthracene	Benzene	Benzo(a)pyrene	Benzo(b)fluoranthene
Emission Factor in lb/mmcf	2.4E-06	1.8E-06	2.1E-03	1.2E-06	1.8E-06
Emission Factor in lb/mmBtu	2.4E-09	1.8E-09	2.1E-06	1.2E-09	1.8E-09
Potential Emission in tons/yr	2.99E-07	2.24E-07	2.62E-04	1.49E-07	2.24E-07

HAPs - Organics(continued)

	zo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Dichlorobenzene
Emission Factor in lb/mmcf	1.2E-06	1.8E-06	1.8E-06	1.2E-06	1.2E-03
Emission Factor in lb/mmBtu	1.2E-09	1.8E-09	1.8E-09	1.2E-09	1.2E-06
Potential Emission in tons/yr	1.49E-07	2.24E-07	2.24E-07	1.49E-07	1.49E-04

HAPs - Organics(continued)

	Fluoranthene	Fluorene	Formaldehyde	Hexane	Indeno(1,2,3-cd)pyrene
Emission Factor in lb/mmcf	3.0E-06	2.8E-06	7.5E-06	1.8E+00	1.8E-06
Emission Factor in lb/mmBtu	2.9E-09	2.7E-09	7.4E-09	1.8E-03	1.8E-09
Potential Emission in tons/yr	3.74E-07	3.49E-07	9.34E-07	2.24E-01	2.24E-07

HAPs - Organics(continued)

	Naphthalene	Phenanthrene	Total Haps Organics	Total Haps Combined
Emission Factor in lb/mmcf	6.1E-04	1.7E-05		
Emission Factor in lb/mmBtu	6.0E-07	1.7E-08		
Potential Emission in tons/yr	7.60E-05	2.12E-06	2.25E-01	2.25E-01

Methodology

Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#1 and #2 Fuel Oil

Company Name: Community Hospital
Address, City IN Zip: 1550 North Ritter Avenue
CP: 5039
Plt ID: 00229
Reviewer: DRA
Date: 06/22/01

Heat Input Capacity
MMBtu/hr

Potential Throughput
kgals/year

S = Weight % Sulfur
0.5

29

1814.5714

Emission Factor in lb/kgal	Pollutant				
	PM*	SO ₂	NO _x	VOC	CO
	2.0	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	1.8	64.4	18.1	0.3	4.5

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM₁₀ when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emission calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#1 and #2 Fuel Oil
HAPs Emissions

Company Name: Community Hospital
Address, City IN Zip: 1550 North Ritter Avenue
CP: 5039
Plt ID: 00229
Reviewer: DRA
Date: 06/22/01

HAPs - Metals

Emission Factor in lb/mmBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	5.08E-04	3.81E-04	3.81E-04	3.81E-04	1.14E-03

HAPs - Metals (continued)

Emission Factor in lb/mmBtu	Mercury 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Selenium 1.5E-05	Total Haps
Potential Emission in tons/yr	3.81E-04	7.62E-04	3.81E-04	1.91E-03	6.22E-03

Methodology

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

Appendix A: Emissions Calculations**Natural Gas Combustion Only****MM BTU/HR <100****Small Industrial Boiler**

Company Name: Community Hospital
Address City IN Zip: 1550 North Ritter Avenue
CP: 5039
Plt ID: 00229
Reviewer: DRA
Date: 06/22/01

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

65.0

569.4

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	7.6	7.6	0.6	100.0 *see below	5.5	84.0
Potential Emission in tons/yr	2.2	2.2	0.2	28.5	1.6	23.9

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

PM emission factors are condensable and filterable.

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
Gas Boiler
HAPs Emissions

Company Name: Community Hospital
Address, City IN Zip: 1550 North Ritter Avenue
CP: 5039
Plt ID: 00229
Reviewer: DRA
Date: 06/22/01

AP-43 data given in lb/mmcf: To convert lb/mmcf-lb/mmbtu, divide by 1,020

HAPs - Metals

	Arsenic	Beryllium	Cadmium	Chromium	Lead
Emission Factor in lb/mmcf	2.0E-04	1.2E-05	1.1E-03	1.4E-03	0.0E+00
Emission Factor in lb/mmBtu	2.0E-07	1.2E-08	1.1E-06	1.4E-06	0.0E+00
Potential Emission in tons/yr	2.49E-05	1.49E-06	1.37E-04	1.74E-04	0.00E+00

HAPs - Metals (continued)

	Mercury	Manganese	Nickel	Selenium	Total Haps Metals
Emission Factor in lb/mmcf	2.6E-04	3.8E-04	2.1E-03	2.4E-05	
Emission Factor in lb/mmBtu	2.5E-07	3.7E-07	2.1E-06	2.4E-08	
Potential Emission in tons/yr	3.24E-05	4.73E-05	2.62E-04	2.99E-06	7.39E-04

HAPs - Organics

	Methylnaphthalene	3-Methylchloranthrene	7,12-Dimethylbenz(a)anthracene	Acenaphthene	Acenaphthylene
Emission Factor in lb/mmcf	2.4E-05	1.8E-06	1.6E-06	1.8E-06	1.8E-06
Emission Factor in lb/mmBtu	2.4E-08	1.8E-09	1.6E-09	1.8E-09	1.8E-09
Potential Emission in tons/yr	2.99E-06	2.24E-07	1.99E-07	2.24E-07	2.24E-07

HAPs - Organics(continued)

	Anthracene	Benz(a)anthracene	Benzene	Benzo(a)pyrene	Benzo(b)fluoranthene
Emission Factor in lb/mmcf	2.4E-06	1.8E-06	2.1E-03	1.2E-06	1.8E-06
Emission Factor in lb/mmBtu	2.4E-09	1.8E-09	2.1E-06	1.2E-09	1.8E-09
Potential Emission in tons/yr	2.99E-07	2.24E-07	2.62E-04	1.49E-07	2.24E-07

HAPs - Organics(continued)

	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Dichlorobenzene
Emission Factor in lb/mmcf	1.2E-06	1.8E-06	1.8E-06	1.2E-06	1.2E-03
Emission Factor in lb/mmBtu	1.2E-09	1.8E-09	1.8E-09	1.2E-09	1.2E-06

Appendix A: Emissions Calculations**Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)****Gas Boiler****HAPs Emissions**

	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Dichlorobenzene
Potential Emission in tons/yr	1.49E-07	2.24E-07	2.24E-07	1.49E-07	1.49E-04

HAPs - Organics(continued)

	Fluoranthene	Fluorene	Formaldehyde	Hexane	Indeno(1,2,3-cd)pyrene
Emission Factor in lb/mmcf	3.0E-06	2.8E-06	7.5E-06	1.8E+00	1.8E-06
Emission Factor in lb/mmBtu	2.9E-09	2.7E-09	7.4E-09	1.8E-03	1.8E-09
Potential Emission in tons/yr	3.74E-07	3.49E-07	9.34E-07	2.24E-01	2.24E-07

HAPs - Organics(continued)

	Naphthalene	Phenanthrene	Total Haps Organics	Total Haps Combined
Emission Factor in lb/mmcf	6.1E-04	1.7E-05		
Emission Factor in lb/mmBtu	6.0E-07	1.7E-08		
Potential Emission in tons/yr	7.60E-05	2.12E-06	2.25E-01	2.25E-01

Methodology

Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#1 and #2 Fuel Oil

Company Name: Community Hospital
Address, City IN Zip: 1550 North Ritter Avenue
CP: 5039
Pit ID: 00229
Reviewer: DRA
Date: 06/22/01

Heat Input Capacity
MMBtu/hr

Potential Throughput
kgals/year

S = Weight % Sulfur

0.5

65

4067.142857

Emission Factor in lb/kgal	Pollutant				
	PM*	SO ₂	NO _x	VOC	CO
	2.0	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	4.1	144.4	40.7	0.7	10.2

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM₁₀ when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emission calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#1 and #2 Fuel Oil
HAPs Emissions

Company Name: Community Hospital
Address, City IN Zip: 1550 North Ritter Avenue
CP: 5039
Plt ID: 00229
Reviewer: DRA
Date: 06/22/01

HAPs - Metals

Emission Factor in lb/mmBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	5.08E-04	3.81E-04	3.81E-04	3.81E-04	1.14E-03

HAPs - Metals (continued)

Emission Factor in lb/mmBtu	Mercury 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Selenium 1.5E-05	Total Haps
Potential Emission in tons/yr	3.81E-04	7.62E-04	3.81E-04	1.91E-03	6.22E-03

Methodology

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Fuel
Reciprocating (>600 HP)

Company Name: Community Hospital
Address City IN Zip: 1550 North Ritter Avenue
CP#: 5039
Plt ID: 00229
Reviewer: DRA
Date: 06/22/01

B. Emissions calculated for generator 1 based on output rating (hp)

Heat Input Capacity
Horsepower (hp)

Potential Throughput
hp-hr/yr

S= 0.5 = WEIGHT % SULFUR

Fuel Usage Rate 101.6

2168.0

18991680.0

Emission Factor in lb/hp-hr	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	0.00007	not provided	0.0081 (.00809S)	0.024 **see below	0.00071	0.01300
Potential Emission in tons/yr	0.7	0.0	76.8	227.9	6.7	123.4
Potential Emissions Based on 500 hrs	0.0	0.0	4.4	13.0	0.4	7.0

B. Emissions calculated for generator 2 based on output rating (hp)

Heat Input Capacity
Horsepower (hp)

Potential Throughput
hp-hr/yr

S= 0.5 = WEIGHT % SULFUR

Fuel Usage Rate 38.9

777.0

6806520.0

Emission Factor in lb/hp-hr		Pollutant					
		PM*	PM10*	SO2	NOx	VOC	CO
		0.00007	not provided	0.0081 (.00809S)	0.024 **see below	0.00071	0.01300
Potential Emission in tons/yr		0.2	0.0	27.5	81.7	2.4	44.2
Potential Emissions Based on 500 hrs		0.0	0.0	1.6	4.7	0.1	2.5

B. Emissions calculated for generator 3 based on output rating (hp)

Heat Input Capacity
Horsepower (hp)

Potential Throughput
hp-hr/yr

S= 0.5 = WEIGHT % SULFUR

Fuel Usage Rate 49.7

1061.0

9294360.0

Emission Factor in lb/hp-hr		Pollutant					
		PM*	PM10*	SO2	NOx	VOC	CO
		0.00007	not provided	0.0081 (.00809S)	0.024 **see below	0.00071	0.01300
Potential Emission in tons/yr		0.3	0.0	37.6	111.5	3.3	60.4
Potential Emissions Based on 500 hrs		0.0	0.0	2.1	6.4	0.2	3.4

B. Emissions calculated for generator 4 based on output rating (hp)

Heat Input Capacity

Potential Throughput

S= 0.5 = WEIGHT % SULFUR

Horsepower (hp)

hp-hr/yr

Fuel Usage Rate

57

800.0

7008000.0

Emission Factor in lb/hp-hr	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	0.00007	not provided	0.0081 (.00809S)	0.024 **see below	0.00071	0.01300
Potential Emission in tons/yr	0.2	0.0	28.3	84.1	2.5	45.6
Potential Emissions Based on 500 hrs	0.0	0.0	1.6	4.8	0.1	2.6
Overall Fuel Usage Rate	247.2 Hours per year		500 Gallons per year		123600	
Total Emissions for Generators	0.1	0.0	9.7	28.8	0.8	15.6

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr

Note that the PM10 emission factor in lb/hp-hr is not provided in the Supplement B update of AP-42.

An average conversion factor of 1hp-hr = 7,000Btu is provided below.

Methodology

Potential Throughput (hp-hr/yr) = hp * 8760 hr/yr

Emission Factors are from AP 42 (Supplement B 10/96)Table 3.4-1 and Table 3.4-2

1 hp-hr = 7000 Btu, AP42 (Supplement B 10/96), Table 3.3-1, Footnote a.

Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)

Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton)

*No information was given regarding which method was used to determine the PM emission factor or whether condensable PM is included. The PM10 emission factor is filterable and condensable PM10 combined.

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

Appendix A: Emissions Calculations

Summary

Company Name: Community Hospital
 Address, City IN Zip: 1550 North Ritter Avenue
 CP: 5039
 Plt ID: 00229
 Reviewer: DRA
 Date: 06/22/01

Potential To Emit

Pollutant	PM	PM10	SO2	NOx	VOC	CO	HAPs
B1Gas	1.0	1.0	0.1	12.7	0.7	10.7	2.25E-01
B1Oil	1.8		64.4	18.1	0.3	4.5	6.22E-03
Max	1.8	1.0	64.4	18.1	0.7	10.7	0.2
B2Gas	1.0	1.0	0.1	12.7	0.7	10.7	2.25E-01
B2Oil	1.8		64.4	18.1	0.3	4.5	6.22E-03
Max	1.8	1.0	64.4	18.1	0.7	10.7	2.25E-01
B3Gas	2.2	2.2	0.2	28.5	1.6	23.9	2.25E-01
B3Oil	4.1		144.4	40.7	0.7	10.2	6.22E-03
Max	4.1	2.2	144.4	40.7	1.6	23.9	2.25E-01
Total	7.7	4.1	273.2	77.0	3.0	45.3	0.7

Fuel Limitations for Burning Oil

Allowable SO2 Emissions = SO2Boilers-SO2Generato					=	89.3
Allowable SO2 Emissions	89.3	Potential Fuel Usage	7696.2857	kgal/year		
Potential To Emit SO2	273.2	Limited Fuel Usage	2514.9	kgal/year		
Ratio	0.326771363					

Limited Potential To Emit

Pollutant	PM	PM10	SO2	NOx	VOC	CO	HAPs
B1Gas	1.0	1.0	0.1	12.7	0.7	10.7	0.2
B1Oil	0.6		21.0	5.9	0.1	1.5	0.0
Max	1.0	1.0	21.0	12.7	0.7	10.7	0.2
B2Gas	1.0	1.0	0.1	12.7	0.7	10.7	0.2
B2Oil	0.6		21.0	5.9	0.1	1.5	0.0
Max	1.0	1.0	21.0	12.7	0.7	10.7	0.2
B3Gas	0.3	0.5	0.2	28.5	1.6	23.9	0.2
B3Oil	0.5		47.2	13.3	0.2	3.3	0.0
Max	0.5	0.5	47.2	28.5	1.6	23.9	0.2
Generators	0.1		9.7	28.8	0.8	15.6	-
Total	2.5	2.4	99.0	82.7	3.8	60.9	0.7

Fuel Limitations for Burning Oil in Nr. 3 Boiler

Allowable PM Emissions	0.5	Potential Fuel Usage	4067.1429	kgal/yr
Potential To Emit SO2	4.1	Limited Fuel Usage	500.0	kgal/yr
Ratio	0.122936424			

0.2631579 Oil to gas equivalence factor

Fuel Limitations for Burning Gas in Nr. 3 Boiler

Allowable PM Emissions	0.5	Potential Fuel Usage	569.4	mmct/yr
Potential To Emit SO2	2.2	Limited Fuel Usage	131.6	mmct/yr

Ratio	0.231083504
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